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★SING/ X12 98-085450/08 ★RU 2082245-C1

Multi-phase transformer for multiphase semiconductor converters - has middle spiral magnetic circuit and two side spiral magnetic circuits made toroidal

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The middle toroidal magnetic circuit (1) has slots (2) for positioning sections of three-phase primary windings (3). Two butt toroidal magnetic circuits (5) are formed to magnetic circuit via non-magnetic gasket (4) and two secondary multi-phase windings (7) positioned in slots (6) of magnetic circuits (5). The secondary winding is multiphase and can have m' or m-phases.

The transformer connected to three-phase power source produces multiphase EMF shifted mutually by 2 Pi/m angle in its secondary winding voltages.

USE - In multiphase semiconductor converters.

ADVANTAGE - Simplified construction and manufacturing technology of transformers, decreased expenditure of electrical steel ensured symmetry of magnetic circuit and quality of output voltages. (3pp Dwg.No.1/2)

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